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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/955,098	09/19/2001	Masahiro Kawasaki	P21042.P05	9626
7055 7	590 11/13/2003	EXAMINER		
GREENBLUM & BERNSTEIN, P.L.C.			SMITH, ARTHUR A	
1950 ROLANI RESTON, VA	CLARKE PLACE 20191		ART UNIT	PAPER NUMBER
,	,		2851	

DATE MAILED: 11/13/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

			<u> </u>	@1
<u> </u>		Application No.	Applicant(s)	
		09/955,098	KAWASAKI ET A	L.
	Office Action Summary	Examiner	Art Unit	
		Arthur A Smith	2851	
Period	The MAILING DATE of this communication for Reply	appears on the cover sh	eet with the correspondence ac	ddress
THE - Ex aft - If t - If N - Fa - An	HORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATION tensions of time may be available under the provisions of 37 CFI or SIX (6) MONTHS from the mailing date of this communication he period for reply specified above is less than thirty (30) days, a specified above, the maximum statutory per liture to reply within the set or extended period for reply will, by styreply received by the Office later than three months after the management of the patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, a reply within the statutory minimur riod will apply and will expire SIX.	may a reply be timely filed n of thirty (30) days will be considered time (6) MONTHS from the mailing date of this of the come ABANDONED (35 U.S.C. § 133).	ely. communication.
1)⊠	Responsive to communication(s) filed on 0	<u> 8 September 2003</u> .		
2a)[This action is FINAL . 2b)⊠ T	his action is non-final.	,	
3)□	Since this application is in condition for allo closed in accordance with the practice und	owance except for forma ler <i>Ex parte Quayle</i> , 193	I matters, prosecution as to th 5 C.D. 11, 453 O.G. 213.	e merits is
Disposi	tion of Claims			
4)⊠	Claim(s) <u>1,2,4-7 and 9-20</u> is/are pending in	the application.		
,	4a) Of the above claim(s) is/are with		ın.	
5)⊠	Claim(s) <u>1,2,4-7,9 and 10</u> is/are allowed.			
6)⊠	Claim(s) <u>11,12 and 15-17</u> is/are rejected.			
7)⊠	Claim(s) <u>13,14 and 18-20</u> is/are objected to	0.		
	Claim(s) are subject to restriction ar		nt.	
Applica	tion Papers			
9)[The specification is objected to by the Exan	niner.		
10)∑	The drawing(s) filed on 19 September 2001	\underline{l} is/are: a) $igtimes$ accepted (or b)⊡ objected to by the Exa	miner.
	Applicant may not request that any objection to	the drawing(s) be held in a	abeyance. See 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the co			
11)[The oath or declaration is objected to by the	e Examiner. Note the at	ached Office Action or form P	TO-152.
Priority	under 35 U.S.C. §§ 119 and 120			
	Acknowledgment is made of a claim for for location All b) Some * c) None of:			
*	 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bu See the attached detailed Office action for a 	nents have been receive priority documents have reau (PCT Rule 17.2(a)	d in Application No been received in this Nationa).	l Stage
13)[Acknowledgment is made of a claim for dom since a specific reference was included in the 37 CFR 1.78.	nestic priority under 35 U e first sentence of the sp	J.S.C. § 119(e) (to a provisiona pecification or in an Application	al application) n Data Sheet.
14)	 a) The translation of the foreign language Acknowledgment is made of a claim for dom reference was included in the first sentence of 	nestic priority under 35 U	I.S.C. §§ 120 and/or 121 since	e a specific CFR 1.78.
Attachme	ent(s)			
	tice of References Cited (PTO-892)		erview Summary (PTO-413) Paper No	
2) 🔲 No	tice of Draftsperson's Patent Drawing Review (PTO-948) promation Disclosure Statement(s) (PTO-1449) Paper No.) Not	ice of Informal Patent Application (PT	

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 9/8/03 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamada (USPN 4710012).

Yamada discloses a zoom flash comprising a light emitter, ref. 200, and a zoom driver which moves said light emitter along an axis to vary an illumination angle, col. 3 lines 34-40. Yamada also discloses a detecting device which detects a zoom position of said light emitter, col. 3 lines 40-43, and a calculation device which calculates a preflash emission level according to the detected zoom position so that illuminance on an object at a predetermined distance is substantially constant regardless of a variation of

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said illumination angle, col. 3 lines 49-56. Yamada further discloses a control device which activates said light emitter to emit a preliminary flash emission, before a main flash emission, by supplying a voltage corresponding to said pre-flash emission level for said light emitter, col. 3 line 62 - col. 4 line 1 (example of voltage used in the normal zoom, between tele and wide).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 12 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada (USPN 4710012).

Yamada discloses all the limitation of the parent claim as described above.

Yamada does not specifically disclose wherein said calculation device calculates said pre-flash emission level so that an effective guide number is substantially constant regardless of said variation of said illumination angle. However, looking at col. 3 lines 57-61 it is inherent that this is result caused. By varying the amount of voltage applied during the preliminary flash in accordance with the focal length of the camera the guide number will remain constant.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada (USPN 4710012) in view of Fukui (USPN 6167202).

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Yamada discloses all the limitation of the parent claim as described above.

Fukui discloses where a zoom flash has a device that controls a light emitter to perform a pre-flash emission in a flat emission mode, col. 11 lines 12-15. It would have been obvious to one of ordinary skill in the art at the time the invention was made to realize that a flat emission could be used in the preliminary flash emission as this would produce a more uniform reflection of light and thereby lead to a more accurate control of the main flash.

Allowable Subject Matter

Claims 13, 14, 18, 19 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The Examiner is unable to find any pertinent prior art of record that teaches a zoom flash according to claims 11 and 16, further comprising: a memory in which a maximum guide number that varies in accordance with said zoom position, a reference guide number predetermined as a constant, and a reference flash emission level predetermined as a correction constant are stored; wherein said maximum guide number, said reference guide number, and said reference flash emission level are stored in said memory, and wherein said calculation device calculates a pre-flash emission level using the equation: Vfp = Va × (Gnos/Gno(zoom))² wherein "Vfp" represents said pre-flash emission level; "Va" represents said reference flash emission

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level; "Gnos" represents said reference guide number; and "Gno(zoom)" represents said maximum guide number corresponding to the detected zoom position.

Claims 1, 2, 4-7, 9 and 10 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or anticipate the claimed limitation of a zoom flash comprising a memory in which a maximum guide number that varies in accordance with said zoom position, a constant predetermined reference guide number, and a predetermined reference flash emission level serving as a correction constant are stored, wherein said mazimum guide number, said reference guide number, and said reference flash emission level are stored n said memory, and wherein a calculator calculates a preflash emission level using a predetermined relationship between the reference flash emission level, the reference guide number and the maximum guide number corresponding to the detected zoom position. These limitations taken in conjunction with the other limitations of the claims make them allowable over the prior art of record.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arthur A Smith whose telephone number is (703) 605 1228. The examiner can normally be reached on Monday - Thursday from 8:00 AM to 5:30 PM. The examiner can also be reached on alternate Fridays during the same hours.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russ Adams can be reached on (703) 308 2847. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308 0956.

AAS November 10, 2003

SUPERVISORY PATERT EXAMINER
TECHNOLOGY CENTER 2800

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